BUSINESS ANALYSIS OF THE EFFECT OF MENIRAN EXTRACT (*Phyllanthus niruri Linn.*) AS A SUBTITUTE FOR ANTIBIOTIC GROWTH PROMOTER (AGP) IN EGG LAYING HEN INFECTED WITH APEC *(Avian Pathogenic Escherichia coli)*

Ika Anes Ajiardiana

ABSTRACT

The effect of meniran extract (*Phyllanthus niruri Linn.)* addition as a substitute for AGP in the laying hens feed, on the business analysis of farming laying hens infected and those not infected with *Eschericia coli*. 50 laying hens were randomized into two experimental factors with five treatments, each treatment consisting of five replications. Laying hens were infected with *E. coli* bacteria intramuscularly with a concentration of 10^8 cells/kg body weight as much as 1 ml and then the clinical symptoms were observed for 3 days. The laying hens began to be treated with P0-, P0 +, P1, P2 and P3 and maintained for 3 weeks. The experimental data obtained were analyzed statistically using two way analysis of variance (ANOVA). The results showed that the addition of meniran extract (*Phyllanthus niruri Linn*.) as the Antibiotic Growth Promoter in the chicken feed had no effect on the business analysis on the laying hen feed infected with *E. coli*, where the addition of 20% and 30% of meniran extract in the laying hen feed was effective in subtituting the AGP for those hen infected and not infected *E. coli* and it showed the most profitable business analysis with the best BEP price and R/C ratio.

Key words: meniran extract, laying hens, business analysis, *E.coli* bacterial infection